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<p>TM PTO-1449 U.S. DEPARTMENT OF COMMERCE (modified) PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. 5437.06</p> <p>APPLICANT: Doherty et al.</p> <p>FILING DATE May 21, 2001</p>
<p>APPLN. NO. 09/862,652</p>	
<p>GROUP 2632 3752</p>	

U.S. PATENT DOCUMENTS

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EXAMINER INITIAL	PUBLICATION NUMBER	PUB. DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

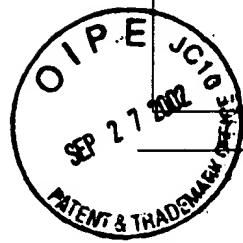
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	APPLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>SGJ</i>	2,618,543	07-1987	France			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER		DATE CONSIDERED	11/4/03
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 5437.06	APPLN. NO. 09/862,652
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT: John A. Doherty et al.	
		FILING DATE 21 May 2001	GROUP 2632 <i>3252</i>

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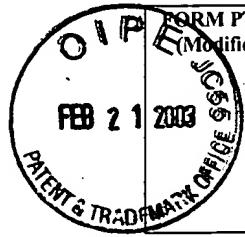
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>SO</i>		Viking '79 Rover Study Final Report, Vol. I, Summary, Vol. II, Detailed Technical Volume, NASA CR-132417, Martin Marietta Corporation, March 1974.
EXAMINER	<i>[Signature]</i>	
	DATE CONSIDERED 11/14/03	
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2013 JCS MAY 2013 PATENT OFFICE SEARCHED		APPLICANT: Doherty et al.	
(Use several sheets if necessary)		FILING DATE May 21, 2001	GROUP 2032 3752

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT: Doherty et al.	
(Use several sheets if necessary)		FILING DATE May 21, 2001	GROUP 2632 3752



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SCG

Article, "Just Drive!," by Allen Zeyher, Roads & Bridges, April 2002

DATE CONSIDERED

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 (Modified) PATENT AND TRADEMARK OFFICE
 INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT
 NOV 26 2001
 (Use several sheets if necessary)

ATTY. DOCKET NO.
5437.06SERIAL NO.
09/862,652APPLICANT:
John A. Doherty

FILING DATE May 21, 2001

GROUP Not Yet Assigned
3752

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SOU</i>	3,160,964	12/1964	Boyer, et al. ✓	239	684	
<i>SOU</i>	3,519,169	07/1970	Holland ✓	222	626	
	* 3,540,655	11/1970	Hinrichs	239	75	
	* 3,655,130	04/1972	Patriek	239	77	
	* 3,856,206	12/1974	Bell, et al.	239	75	
	3,891,979	06/1975	Braun, et al. ✗	340	581	
<i>SOU</i>	3,995,569	12/1976	Picardat ✓	239	656x	
<i>SOU</i>	4,052,003	10/1977	Steffen ✗	239	71	
	* 4,084,748	04/1978	Anderson, et al.	239	74	
	* 4,176,791	12/1979	Cattaneo, et al.	239	76	
	* 4,209,065	06/1980	Ledent	166	64	
	* 4,210,284	07/1980	Tarnay, et al.	239	75	
<i>SOU</i>	4,274,091	06/1981	Decker ✓	340	905	
<i>SOU</i>	4,442,979	04/1984	Kupper ✓	239	656	
<i>SOU</i>	4,491,275	01/1985	Holsworth ✓	239	687x	
<i>SOU</i>	4,492,952	01/1985	Miller ✓	340	52 F	
	* 4,503,806	03/1985	Prusak, et al.	118	712	
	* 4,523,280	06/1985	Bachman	364	424	
	* 4,529,336	07/1985	Shinozaki, et al.	406	14	
<i>SOU</i>	4,588,127	05/1986	Ehrat ✓	239	662x	
<i>SOU</i>	4,678,056	07/1987	Kobari, et al. ✓	180	247	
	* 4,768,716	09/1988	Buchanan, Jr., et al.	239	284.1	
	* 4,684,062	08/1987	Bagwell	239	1	
	* 4,803,626	02/1989	Bachman, et al.	364	424.07	
	* 4,809,197	02/1989	Tashiro, et al.	364	550	
	* 4,984,163	01/1991	Kuwana, et al.	364	426.02	
	* 5,012,977	05/1991	Karklins, et al.	239	284.1	
	* 5,028,017	07/1991	Simmons, et al.	244	134C	
<i>SOU</i>	5,069,392	12/1991	Wise, et al. ✓	239	675	
<i>SOU</i>	5,096,125	03/1992	Wise, et al. ✓	239	675	
<i>SOU</i>	5,186,396	02/1993	Wise, et al. ✓	239	675	
<i>SOU</i>	5,267,696	12/1993	Balmer ✓	239	662	
<i>SOU</i>	5,310,113	05/1994	Cowgur ✓	239	69x	
<i>SOU</i>	5,318,226	06/1994	Kime, et al. ✓	239	687x	
	* 5,366,039	11/1994	Sawada	180	197	
<i>SOU</i>	5,416,476	05/1995	Rendon ✓	340	905	
<i>SOU</i>	5,447,272	09/1995	Ask ✓	239	7	
	* 5,449,049	09/1995	Every	180	197	
<i>SOU</i>	5,515,623	05/1996	Weeks ✓	239	289x	
<i>SOU</i>	5,521,594	05/1996	Fukushima ✓	340	905	
<i>SOU</i>	5,619,193	04/1997	Doherty, et al. ✓	340	905	
<i>SOU</i>	5,653,389	08/1997	Henderson, et al. ✓	239	172x	
<i>SOU</i>	5,699,056	12/1997	Yoshida ✗	340	905	
<i>SOU</i>	5,745,051	04/1998	Doherty, et al. ✓	340	905	
	5,774,070	06/1998	Rendon ✓	340	905	
<i>SOU</i>	5,904,296	05/1999	Doherty, et al. ✓	239	663x	

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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	* 5,928,504	07/1999	Hembre, et al.	218	88	
SGG	5,931,393	08/1999	Alsip, et al. ✓	239	677x	
	* 5,947,391	09/1999	Beck et al.	239	677	
	* 5,957,621	09/1999	Clark, Jr. et al.	404	111	
	* 6,092,745	07/2000	Seymour et al.	239	675	
	* 6,173,904	01/2001	Doherty et al.	239	1	

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	DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	* 2,060,418	08/1993	Canada				
	* 2,233,689	04/1997	Canada				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SOG	Advertisement, Root Snow Plows ✓
	Mobile GPS Builds on 7400 Technology to Claim the Future of Pavement Management, FactsFinder ✓
	Advertisement, Henderson Manufacturing Reversible Plow ✓
	Advertisement, Henderson Manufacturing Patrol Wing ✓
	Advertisement, Tenco Side Wings ✓
	Advertisement, Tenco Reversible Plow ✓
	Surveyors Use Pedal Power to Map City, ENR, November 13, 1995 ✓
	Trimble, AEC Automation Newsletter, September 1995 ✓
	GPS Satellites, Trimble Precise Positioning Systems ✓
✓	GPS Goes Real Time, Civil Engineering, September 1994 ✓
	Advertisement, VIBRO-METER SA, Fribourg, Switzerland ✗
	SCAN FP 2000 Sensor Advertisement, Surface Systems Inc. ✗
SOG	Data Sheet D251, AANDERAA INSTRUMENTS, March 1995 ✓
SOG	UCRL-MI-120916, Lawrence Livermore National Laboratory, June 7, 1995 ✓
	Article, "Calibration to Automation," Road & Bridges, June 1999 ✗
SOG	Block diagram from Iowa Department of Transportation presentation, August 11, 1999 ✓
	* Advertisement, COMPU-SPREAD™ "Introducing our On board Liquid Pre-Wetting System. C.I.S. - SERIES," Appears to be available as early as April 1997
	* GL 400 Spreader Control Presentation, Component Technology, Appears to be available as early as March 15, 2001
	* White Paper, "Ice! Alert," Appears to be available as early as 1998
	* "SaltMiser™ Operating Instructions," December 8, 1997
	* Marketing Document, DIDACTICS Incorporated, " Why SaltMiser?," pages 1, 3, and 5 of 6 available
	* Marketing Document, DIDACTICS Incorporated, "Saltmiser™ 2.0 A Real Time Salt Application Controller," October 25, 1997
	* Marketing Document, DIDACTICS Incorporated, "IR Applications for Ice and Snow Control," pages 335-362 available, Appears to be available as early as May 12, 1998
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	* Article, "Better bridge deicing on the way?" Better Roads, June 1995
	* Advertisement, Passport 5000, "Only Passport 5000 Gives You the Total Picture," 1995
	* Article, "Roads Report," edited by Larry Flynn, Roads & Bridges, March 1993
	* Article, "Americans can Learn a Lot from European, Japanese Snowfighters," by Leland D. Smithson, P.E., Roads & Bridges, pages 30-32 available, June 1995
	* Article, "Developments Improve Road Weather Information Systems," Better Roads, pages 21 and 24 available, October 1995



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- * Article, "RWIS helps with snow and ice control," Better Roads, September 1994
- * Brochure, Tell Temp 750, Geneva Scientific, October 1994
- * Brochure, "Artificial Intelligence/Expert Systems," Kaman Sciences Corporation, Copyright 1991
- * Article, "Traffic Sensor System," Better Roads, December 1995
- * Article, "The View From Space Satellites keep eye on earthly activity," USA Today
- * Article, "Riding the Data Highway," Newsweek, Page 97, March 21, 1994
- * Picture diagram, "One-Second Emissions Test," Denver Post, May 7, 1995
- * Article, "Colorado Hosts Pilot Workshop Pavement Preventive Maintenance: An Idea Whose Time Has Come," Focus, US Department of Transportation Federal Highway Administration, August 1995
- * Article, "Innovations in ITS," ITE Journal, December 1996
- * Brochure, "KEMS ... A Geographic Information System Tailored for Emergency Management Applications," Kaman Sciences Corporation
- * Article, "Measuring Salt's Effectiveness in New York," Better Roads, January 1995
- * Excerpts from America Online: XKlean, June 30, 1995
- * Article, "Clementine Searches for Ice on Moon," by Jane E. Allen, Sunday Camera, April 17, 1994
- * Article, entitled "Cellular technology has new niche, Phones offer mobile control in rural Colorado," by Dinah Zeiger, Denver Post, August 21, 1994
- * Article, "Columbia/HCA system speeds test result delivery," USA Today, November 11, 1994
- * Article, "Danger – Black Ice!" Traffic Technology International, 1994
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- * Kaman Annual Report, 1993
- * Article, "Humidity and Pressure Measurement," Vaisala News, 1992
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- * Article, "The Snow on Pluto," by Jeffrey Winters, Discover, January 1997
- * Article, "Water, Pure and Simple," by Ashok Gadgil, Discover, pages 87-88, July 1996
- * Article, "One Very Cold Lake," by Kathleen Spiessbach, Discover, page 26, January 1997
- * Article, "Perpetual Flight," by Kathy A. Svitil, Discover, page 38, November 1996
- * Advertisement, Cole-Parmer Instrument Company, re: Cole-Parmer Low-Cost Infrared Thermometers, 1997
- * Brochure, Southwest Research Institute – Guide, 13 pages, August 1996
- * Brochure, Southwest Research Institute – Guide, 13 pages, January 1998
- * Brochure, "Facts About Southwest Research Institute," Southwest Research Institute, San Antonio, Texas
- * Annual Report from Southwest Research Institute, 1996
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- * Feedback on article, "Managing Winter Weather" and "Visibility a Key Component of Weather Systems," by John D. Crosby, December 1996
- * Article, "Ordinary Vinegar Found Among Stars," by Paul Recer
- * Brochure, "Solving Today's Problems for Tomorrow's Safety," Control Products, Inc.
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- * Article, "Sensors to Help State Keep Ahead of Storms," by Ed Vogel
- * Brochure, "Autoscope," Econolite Control Products, Inc.
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- * Article, "Out Front – What's Happening in the World of ITS"
- * Article, "New Auto Technology Helps Guide Drivers, Avoid Crashes," by Earle Eldridge, USA Today
- * Advertisement, "Hand-Held Autoranging Conductivity Meters"
- * Instruction Manual from Coralba ad, Sweden, "Instructions for C-u Friction Tester"

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